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Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)
	10/750,302	HSU ET AL.
Office Action Summary	Examiner	Art Unit
	Tilahun B. Gesesse	2618
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with the o	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING ID. - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION .136(a). In no event, however, may a reply be tird d will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on 12 in 2a) This action is FINAL . 2b) This action is FINAL . 2b) This action is application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters, pro	
Disposition of Claims		
4) Claim(s) 1-32 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-3,5-8,10-15,18-28 and 30-32 is/are 7) Claim(s) 4,9,16,17 and 29 is/are objected to. 8) Claim(s) are subject to restriction and/ Application Papers 9) The specification is objected to by the Examination 10 The drawing(s) filed on is/are: a) according and according to the application papers	awn from consideration. e rejected. for election requirement. her.	Examiner.
Applicant may not request that any objection to the Replacement drawing sheet(s) including the correctal. The oath or declaration is objected to by the E	ction is required if the drawing(s) is ob	jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	nts have been received. nts have been received in Applicat ority documents have been receive au (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate

DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed March 12,2008 have been fully considered but they are not persuasive.

Shui discloses a device (base station or terminal device, see figure 1) in communication system (see figure 1). Shui teaches data processor (see figure 2A and 2B) in which plurality transport channels processed data blocks (see figure 3 and 4) in which the data blocks in transmission time interval (TTI). Shui also teaches a controller (at the base station and terminal device, 522 of figure 5). Shui teaches the inner loop maintain the signal quality of a data transmission received at terminal as close as possible to a target SNIR (i.e., set-point, see col.8, lines 33-35) for plurality of transport channels (see figure 3 and 4).

Shui teaches measuring the signal quality of the data transmission at the terminal (see 512 of fig.5), comparing the received signal quality (SNIR) against the target SNIR (514 of fig.5). to adjust it's transmit power for data transmission up or down command to adjust according the target SNIR, see col.8, lines 46-65).

Shui discloses inner loop (see 510 of fig.5) maintains the received SNIR at or near the target SNIR in the presence of changes in the communication channel (see col.8, lines 63-65) based on the status of the at least one data block received in the update interval see col.8, lines 46-65, col.8, lines 66-col.9, line

37 and figure 7) in which receive data blocks of transport channel (712 of fig.7) determine if any transport channel received in error with transmission time interval and adjust based on the target SNIR (see fig.8).

On page 12, third paragraph of response applicant argued that Shui does not teach or suggest "a controller maintains a single signal quality target for the plurality of transport channels." And "this target SNIR is for the physical channel and not for the plurality of transport channels."

The examiner respectively disagrees. Shui teaches the inner loop maintain the signal quality of a data transmission received at terminal as close as possible to a target SNIR (i.e., set-point, see col.8, lines 33-35) for plurality of transport channels (see figure 3 and 4). Shui teaches the inner loop maintain the signal quality of a data transmission received at terminal as close as possible to a target SNIR (i.e., set-point, see col.8, lines 33-35) for plurality of transport channels (see figure 3 and 4).

On page 14, third paragraph of response applicant argued that Shui does not teach or suggest "adjust the single SIR target based on the status of the at least one data block received in the current update interval."

The examiner respectively disagrees. Shui teaches measuring the signal quality of the data transmission at the terminal (see 512 of fig.5), comparing the received signal quality (SNIR) against the target SNIR (514 of fig.5). to adjust its transmit power for data transmission up or down command to adjust according

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the target SNIR, see col.8, lines 46-65).

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 3. Claims 1,5-6, 23 and 26 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 4. Claims 1,5-6, 23 and 26, recites " without maintaining an individual SIR target for each transport channel" such negative recitation renders 35 USC 112 2nd paragraph. the claims are indefinite because they merely with out any active, positive step.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-3,15, 18-25 rejected under 35 U.S.C. 102(e) as being anticipated by Shiu.

Claim1, Shiu teaches a device in a wireless communication system (see fig. 1).

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Shiu teaches a data processor (522 of fig.5) operative to process at least one data block, (see fig.3) received in a current update interval and on at least one transport channel among a plurality of transport channels, and to provide a status of each of the at least one data block (col.8, line 59 through col.9 line 37).

Shiu teaches a controller (522 of fig.5) operative to adjust a single signal quality (SIR) target maintained for the plurality of transport channels based on status of the at least one data block received in the current update interval, (column 4, lines 7-62). Shiu teaches the SIR target is adjusted by all data blocks received on all transport channels in the current update interval and is used for power control of data transmission on the plurality of transport channels, (see fig. 5 and col.9, lines 10-46 and col. 12, lines 52-62, column 7, lines 64- column 19, lines 24-43 and column 24, lines 41-64 and figures 5, 12-13).

Claim 2, Shiu teaches the controller (522 of fig.5) is operative to increase the SIR target based on an up step if any one of the at least one data block is an erased data block and to decrease the SIR target based on a down step if all of the at least one data block is good data blocks (see figs. 6-8 and col.9, lines 10-46 and col.12, lines 52-62).

Claim 3 Shiu teaches each of the plurality of transport channels is associated with a respective down step size, and wherein the up step is a fixed value and the down step is set to a smallest down step size among down step sizes for transport channels with erased data blocks in the current update interval (see fig. 6-8 and col.9, lines 10-46 and col. 12, lines 52-62).

Claim 5, Shiu teaches all Imitations as explained above in claim 1. it is a

apparatus claims, which correspond to system claim 1 above, therefore, it is analyzed and rejected for same reason as set forth in the claim.

Claim 6. Shiu teaches all Imitations as explained above in claim 1. it is a apparatus claims, which correspond to system claim 1 above, therefore, it is analyzed and rejected for same reason as set forth in the claim. Further more, Shui teaches increase or decrease based on the single SIR target if one data block in the current update interval (see figures 6-7) in which data block is good or bad increase or decrease based on the single SIR target.

Claims 7-8, Shiu teaches each of the at least one transport channel is associated with a respective block error rate target, and wherein the controller is operative to increase or decrease the SIR target to meet or exceed the BLER target for each of the at least one transport channel (see figs.6-8 and col. 9, lines 10-46).

Claim 10, Shiu teaches the controller is operative to increase the SIR target by an up step having a fixed size and to decrease the SIR target by a down step having an adjustable size (sees figs. 6-8 and col.9, lines 10-46 and col. 12, lines 52-62).

Claim 11, Shiu teaches each of the plurality of transport channels is associated with a respective down step size selectable as the down step used to decrease the SIR target (see figures 6-8 and col. 9, lines 10-46).

Claim 12. Shiu teaches the controller is further operative to set the down step to a smallest down step size among down step sizes for transport channels with erased data blocks in the current update interval (see figure 5 and co1.9, lines 10-

46).

Claim 13, Shiu teaches the down step size for each of the plurality of transport channels is determined based on a block error rate target and at least one transport format selected for the transport channel (see figure 5).

Claim 14. Shiu teaches the controller is further operative to saturate the SIR target to be within a predetermined range of values (column 4, lines 7-62).

Claims 15, Shiu teaches set to a second value otherwise, the first value being larger than the second value and the up step is set to a first value if an erased block is received for a transport channel without an erased block in a prior update interval and set to a second value otherwise, the first value being larger than the second value (see fig. 11).

Claim 18. Shiu teaches a transmit power control (TPC) processor operative to compare a received SIR for the data transmission against the SIR target and provide TPC commands used to adjust transmit power for the data transmission (see figs.5).

Claim 19, Shiu teaches the wireless communication system is a Code Division Multiple Access (CDMA) system (column 1, line 23-31).

Claim 20, Shiu teaches an apparatus in a wireless communication system (see figures 3A and 3).

Shiu teaches means for processing (fig. 5, 522) at least one data block received in a current update interval and on at least one transport channel among a plurality of transport channels (see column 9, lines 10-46).

Shiu teaches means for determining a status of each of the at least one data

block received in the current update interval as a good data block or an erased data block (column 4, lines7-62).

Shiu teaches means for increasing a signal quality (SIR) target if any one of the at least one data block received in the current update interval is an erased data (col.9, lines 10-46 and co1, 12, lines 52-62).

Shiu teaches means for decreasing the SIR target if all of the at least one data block received in the current update interval are good data blocks, wherein the SIR target is used for power control of data transmission on the plurality of transport channels (see column 9, lines 10-46 and col. 12, lines 52-62).

Claim 21. Shiu teaches a processor readable media for storing instructions operable in a wireless device (column 9, lines 10-46).

Shiu teaches process at least one data block received in a current update interval and on at least one transport channel among a plurality of transport channels (column 9, lines 10-46).

Shiu teaches determine a status of each of the at least one data block received in the current update interval as a good data block or an erased data block (see column 4, lines 7-62 and co1.12, 51-61) increase a signal quality (SIR) target if any one of the at least one data block received in the current update interval is an erased data block and decrease the SIR target if all of the at least one data block received in the current update interval is good data blocks, wherein the SIR target is used for power control of data transmission on the plurality of transport channels (see column 7, lines 64- column 19, lines 24-43 and column 24, lines 41-64 and figures 5, 12-13, col.9, lines 10-46).

Claims 22, and 25, Shiu teaches all Imitations as explained above in claim 20. they are method claims, which correspond to apparatus claim 20 above, therefore,

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it is analyzed and rejected for same reason as set forth in the claim. Further more, Shui discloses a device (base station or terminal device, see figure 1) in communication system (see figure 1). Shui teaches data processor (see figure 2A and 2B) in which plurality transport channels processed data blocks (see figure 3 and 4) in which the data blocks in transmission time interval (TTI). Shui also teaches a controller (at the base station and terminal device, 522 of figure 5). Shui teaches the inner loop maintain the signal quality of a data transmission received at terminal as close as possible to a target SNIR (i.e., set-point, see col.8, lines 33-35) for plurality of transport channels (see figure 3 and 4).

Shui teaches measuring the signal quality of the data transmission at the terminal (see 512 of fig.5), comparing the received signal quality (SNIR) against the target SNIR (514 of fig.5). to adjust it's transmit power for data transmission up or down command to adjust according the target SNIR, see col.8, lines 46-65).

Shui discloses inner loop (see 510 of fig.5) maintains the received SNIR at or near the target SNIR in the presence of changes in the communication channel (see col.8, lines 63-65) based on the status of the at least one data block received in the update interval see col.8, lines 46-65, col.8, lines 66-col.9, line 37 and figure 7) in which receive data blocks of transport channel (712 of fig.7)

determine if any transport channel received in error with transmission time interval and adjust based on the target SNIR (see fig.8).

Claims 23-24, Shiu teaches all limitations as explained above in claim 20. they are a system claims, which correspond to system claim 20 above, therefore, it is analyzed and rejected for same reason as set forth in the claim.

Claims 26-27,30-32 Shui discloses a device (base station or terminal device, see figure 1) in communication system (see figure 1). Shui teaches data processor (see figure 2A and 2B) in which plurality transport channels processed data blocks (see figure 3 and 4) in which the data blocks in transmission time interval (TTI). Shui also teaches a controller (at the base station and terminal device, 522 of figure 5). Shui teaches the inner loop maintain the signal quality of a data transmission received at terminal as close as possible to a target SNIR (i.e., set-point, see col.8, lines 33-35) for plurality of transport channels (see figure 3 and 4).

Shui teaches measuring the signal quality of the data transmission at the terminal (see 512 of fig.5), comparing the received signal quality (SNIR) against the target SNIR (514 of fig.5). to adjust it's transmit power for data transmission up or down command to adjust according the target SNIR, see col.8, lines 46-65).

Shui discloses inner loop (see 510 of fig.5) maintains the received SNIR at or near the target SNIR in the presence of changes in the communication

channel (see col.8, lines 63-65) based on the status of the at least one data block received in the update interval see col.8, lines 46-65, col.8, lines 66-col.9, line 37 and figure 7) in which receive data blocks of transport channel (712 of fig.7) determine if any transport channel received in error with transmission time interval and adjust based on the target SNIR (see fig.8).

claims 30-32, Shiu teaches each of the plurality of transport channels is associated with a respective down step size, and wherein the up step is a fixed value and the down step is set to a smallest down step size among down step sizes for transport channels with erased data blocks in the current update interval (see fig. 6-8 and col.9, lines 10-46 and col. 12, lines 52-62).

Allowable Subject Matter

Claims 4,9 and 16-17, 29 are allowed. The following is an examiner's statement of reasons for allowance: Chiu does not teach each of the at least one data block received in the current update interval is associated with a respective block duration, wherein the down step indicates an amount of adjustment to the SIR target per frame, and wherein the adjustment duration indicates the number of frames for which to apply the adjustment to the SIR target.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably Application/Control Number: 10/750,302 Page 12

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accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Engstrom et al (US 6,639, 934) teaches SIR target and processing signal (See figures 5 and 6)

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tilahun B. Gesesse whose telephone number is 571-272-7879. The examiner can normally be reached on flex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Anderson can be reached on 571-272-4177. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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July 7, 2008 T.B.G Tilahun B Gesesse Primary Examiner Art Unit 2618

/Tilahun Gesesse/

Primary Examiner, Art Unit 2618